Scenario Worksheet

Dractica	and Cooperi	o Description:

Information Type	Data
Region	Delta States
State	Louisiana
Discipline Group	Agronomy
Practice Code/Name	342 - Critical Area Planting
Scenario ID	4
Scenario Name	Grass/legume mix-moderate grading
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Establishment of permanent vegetation on a site that is void or nearly void of vegetation due to a natural or human disturbance. Costs include a dozer for grading and shaping of small gullies, seedbed preparation with typical tillage implements, grass/legume seed, companion crop, and fertilizer and lime with application.

Areas that are void or nearly void of vegetation, resulting in bare soil being exposed to erosive processes. The exposed areas may be caused from natural occurrences (fire, flood, etc) or human disturbance. The exposed areas have visible rills and small gullies averaging 1 foot in depth and 1 foot in width. Runoff from the area flows into streams, water courses or other water bodies causing degradation to the receiving waters. The soil typically has a pH imbalance and low fertility. This typical 1.0 acre critical area is stabilized by grading and shaping the small gullies with a dozer (4 hours) and then applying fertilizer, lime and seed. Soil amendments will be incorporated at an depth of six inches to improve fertility and ensure establishment of permanent vegetative cover. Apply 30 lbs of nitrogen, 60 lbs of phosphate, and 60 lbs of potash, along with an application of 2 tons of lime. Prepare a firm, weed free seedbed so that proper germination and stand establishment are ensured. Once the seedbed has been prepared, drill the following mixture for a vegetative cover: Smooth Bromegrass (15 lbs/ac) and Red Clover (8 lbs/ac) with a nurse crop of oats at a seeding rate of 48 lbs per acre.

Scenario Feature Measure

area seeded

Scenario Unit

Acre

Scenario Typical Size

1

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit		
Materials	\$244.32	\$244.32		
Equipment/Installation	\$241.50	\$241.50		
Labor	\$102.48	\$102.48		
Mobilization	\$25.38	\$25.38		
Acquisition of Technical Knowledge	\$0.00	\$0.00		
Foregone Income	\$0.00	\$0.00		
Total	\$613.68	\$613.68		

Cost Details:

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Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Materials	112	Red Clover (Trifolium pratense)	Introduced Legumes and shipping.	Pound	\$2.60	8	\$20.80
		, , ,	Small Grains, Cover Crops. Shipping not				
Materials	197	Oats (Avena sativa)	included.	Pound	\$0.46	48	\$22.08
Materials	1091	Bermuda Grass (Cynodon dactylon)	Introduced Perennial Grasses and shipping.	Pound	\$3.92	5	\$19.60
Materials	75	Lime, ENM	Fertilizer: Limestone Spread on field.	Ton	\$49.57	2	\$99.14
			Price per pound of N supplied by Urea. Price is				
			not per pound of total product applied, no				
Materials	71	Nitrogen (N), Urea	conversion is needed.	Pound	\$0.59	30	\$17.70
			Price per pound of P2O5 supplied by				
			Superphosphate. Price is not per pound of				
			total product applied, no conversion is				
Materials	73	Phosphorus, P2O5	needed.	Pound	\$0.78	50	\$39.00
			K2O supplied by Muriate Of Potash. Price is				
			not per pound of total product applied, no				
Materials	74	Potassium, K2O	conversion is needed.	Pound	\$0.52	50	\$26.00
			Includes equipment, power unit and labor				
Equipment/Installation	1100	Cultipacking	costs.	Acre	\$7.67	1	\$7.67
		Seeding Operation, No Till/Grass	No Till drill or grass drill for seeding. Includes				
Equipment/Installation	960	Drill	equipment, power unit and labor costs.	Acre	\$12.90	1	\$12.90
			Dry bulk fertilizer application performed by				
		Fertilizer, ground application, dry	ground equipment. Includes equipment,				
Equipment/Installation	950	bulk	power unit and labor costs.	Acre	\$6.33	1	\$6.33
			Includes light disking (tandem) or field				
			cultivator. Includes equipment, power unit				
Equipment/Installation	945	Tillage, Light	and labor costs.	Acre	\$8.86	2	\$17.72
			Track mounted Dozer with horsepower range				
			of 60 to 90. Equipment and power unit costs.				
Equipment/Installation	929	Dozer, 80 HP	Labor not included.	Hour	\$49.22	4	\$196.88
			Includes: Cranes, Hydraulic Excavators >=50				
			HP, Dozers, Paving Machines, Rock Trenchers,				
			Trenchers >=12", Dump Trucks, Ag Equipment				
Labor	233	Equipment Operators, Heavy		Hour	\$25.62	4	\$102.48
			Mobilization of heavy equipment operators:				
			Hydraulic Excavators >=50 HP, Dozers, Paving				
			Machines, Rock Trenchers, Trenchers >=12",				
		Mobilization, Heavy Equipment	Dump Trucks, Ag Equipment >=150 HP,				
Mobilization	1144	Operator		Hour	\$25.38	1	\$25.38

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